EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(non-coring noncoring) with stabiliz$3 near3 tissue same (stylet needle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:40
L2	1	(non-coring noncoring) same stabiliz$3 near3 tissue same (stylet needle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:40
L3	103	prong$3 near3 needle and ("600".clas. "606".clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:47
L4	3	prong$3 near3 needle and (non-coring noncoring) and ("600".clas. "606". clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:50
L5	8	prong$3 and (non-coring noncoring) and ("600". clas. "606".clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:51
L6	2113	blunt near6 needle and (spring pneumatic$4 hydraulic$4 motor$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:56
L7	614	6 and ("600".clas. "606". clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:56

L8	58	(blunt near6 needle and (spring pneumatic$4 hydraulic$4 motor$4)).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:56
L9	4	8 and ("600".clas. "606". clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:56
L10	56	(blunt adj needle with tissue) and (spring pneumatic$4 hydraulic$4 motor$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 14:02
L11	2	(fluid with blunt adj needle with tissue) and (spring pneumatic$4 hydraulic$4 motor$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 14:04
L13	9	veress with needle same (pneumatic$4 hydraulic$4 motor$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 14:17
L14	20	veress with needle and needle with (pneumatic$4 hydraulic$4 motor$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 14:27
L15	1	("5,876,373").PN.	USPAT; USOCR	OR	OFF	2010/07/28 14:42
L16	163	blunt with needle and needle with (pneumatic$4 hydraulic$4 motor$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 14:46
L17	86	blunt with needle and needle with (pneumatic$4 hydraulic$4 motor$4) and needle with fluid	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 14:49

L18	17	blunt with needle same needle with (pneumatic$4 hydraulic$4 motor$4) and needle with fluid	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 14:52
L19	196	(points tips prongs) with stabiliz$4 near3 tissue	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 15:00
L20	105	(needle) near4 stabiliz$4 near3 tissue	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 15:01
L21	0	(05/446346).APP.	US-PGPUB; USOCR	OR	ON	2010/07/28 15:04
L22	28	("1331271" | "3181336" | "3327710" | "3540112" | "3594296").PN. OR ("3906932").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/28 15:05
S1	1	"10599366"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/19 16:40
S2	8	((("6514267") or ("6379371") or ("6352519") or ("6361520") or ("4908045") or ("6746464") or ("6669685") or ("4960419")).PN.	USPAT; USOCR	OR	OFF	2010/01/20 13:00
S3	2	"20040147837"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 13:00
S4	2	"20050010095"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 13:00
S5	1	("6702761").PN.	USPAT; USOCR	OR	OFF	2010/01/20 13:02

S6	2	("0001234").PN.	USPAT; USOCR	OR	OFF	2010/01/20 13:02
S7	13	S2 S3 S4 S5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 13:02
S8	2	"20040147837"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 13:16
S9	429977	(remove removes removed removing) with (remain remains remaining)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:42
S10	49795	(needle needle-electrode penetrate penetrating) with (tissue)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:43
S11	4985	S9 and S10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:44
S12	2498	S11 and (ablation ablated cauter$5 electrocauter$3 energy energiz$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:45
S13	4255	S9 with tissue	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:45
S14	643	S12 and S13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:45

S15	75958	"606".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:47
S16	297	S14 and S15	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:47
S18	19	S16 and cannula near3 guide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:56
S19	173	stylet with cannula and stylet with (energy energiz $3 current cauter$3 electrocauter$3 ablat$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 15:04
S20	100	stylet with remov$3 and S19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 15:04
S21	1006	stylet with (hard firm rigid)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 15:05
S22	32	S20 and S21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 15:05
S23	780	non-coring noncoring non adj coring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:06
S24	2401	non-coring noncoring non adj coring noncore non-core non adj core	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:06

S25	7	S24 and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:06
S26	525197	(double two dual) near3 (tip point blade)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:11
S27	212	S24 and S26	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:11
S28	86	S27 and (RF ablat$4 cauter $4 electrocauter$3 energiz $3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:12
S29	3665	blunt near3 (stylet needle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:19
S30	31	S29 and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:19
S31	25	S30 and (suction$3 vacuum aspirat$4 fluid)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:20
S32	32764	(slender thin) with (tip distal catheter tube) and (suction$3 vacuum aspirat $4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:30
S33	418	S32 and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:30

S34	71846	(small short shortened) near3 (diameter) and (suction$3 vacuum aspirat $4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:32
S35	511	S34 and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:32
S36	372	S35 and ablat$4 with tissue	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:42
S37	2	"20050010095"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:56
S38	700	S24 with (stylet tip needle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:58
S39	2404	non-coring noncoring non adj coring noncore non-core non adj core	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 14:23
S40	96	S39 with (cannula trocar)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 14:23
S41	402	(stylet trocar) with (various types) with (tips distal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 14:50
S42	402	(stylet trocar) with (various types) with (tips tip distal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 14:50

S43	119	edge with bevel$3 with (stylet trocar)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 16:04
S44	1237	bifurcated near3 (needle stylet tip trocar)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 16:43
S45	4	S39 and S44	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 16:43
S46	1237	bifurcated near3 (needle stylet tip trocar penetrator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 16:44
S47	48	("2359550" | "2565865" | "3119391" | "3194237" | "3351059" | "3512520" | "3766919" | "3905371" | "3948261" | "4040421" | "4240423" | "4654034" | "4740205" | "4753641" | "4781697" | "4782841" | "4838877" | "5181524" | "5632728" | "6059737" | "6241710" | "6298541" | "6436086" | "6440104" | "D426305").PN. OR ("6726649").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:44
S48	3	S39 and S47	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:46
S49	54	S39 and (prong pronged)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:46
S50	19	S49 and (trocar cannula obturator introducer)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:47
S51	92	S46 and (trocar cannula obturator introducer)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:50
S52	7469	"not" adj cut noncutting non adj cutting non-cutting S39	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:52
S53	1	S51 and S52	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:52
S54	1	S39 and S51	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:53

S55	4	S46 and S39	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:54
S56	104768	(split prong pronged bifurcat$4) near3 (end needle stylet tip trocar penetrator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 16:54
S57	38	S39 and S56	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 16:55
S58	19	S57 and (trocar cannula obturator introducer)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:55
S59	1054	(forked fork-like forking) near3 (needle stylet tip trocar penetrator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:12
S60	51	S59 and (trocar cannula obturator introducer)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 17:12
S61	2020	atraumatic with (needle stylet tip trocar penetrator) and (trocar cannula obturator introducer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:22
S62	5363	(forked fork-like forking bifurcat$4 split) near3 (needle stylet tip trocar penetrator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:23
S63	31	S61 and S62	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:23
S64	2	("2003/0125677").URPN.	USPAT	OR	ON	2010/01/21 17:28
S65	2049	(cannula introducer obturator trocar stylet needle) and 606/41-52.ccls.	USPAT	OR	ON	2010/01/21 17:31
S66	1	"20050159730"	USPAT	OR	ON	2010/01/21 17:33
S67	88	bifurcat$4 with (stylet tip distal needle) and 606/41-52.ccls.	USPAT	OR	ON	2010/01/21 17:34

S68	57	(cannula introducer obturator trocar) and S67	USPAT	OR	ON	2010/01/21 17:35
S69	85	(needle tip stylet) with (stabiliz$3 fixat$3) and 606/41-52.ccls.	USPAT	OR	ON	2010/01/21 17:38
S70	34	(cannula introducer obturator trocar) and S69	USPAT	OR	ON	2010/01/21 17:38
S71	155	("1879248" | "2008526" | "2038393" | "3556079" | "3595239" | "4016886" | "4119102" | "4204549" | "4311154" | "4402311" | "4411266" | "4448198" | "4470407" | "4474174" | "4524770" | "4552554" | "4565200" | "4568329" | "4682596" | "4719914" | "4753223" | "4800899" | "4813429" | "4823791" | "4860744" | "4905667" | "4907589" | "4919129" | "4943290" | "4950267" | "5007908" | "5025799" | "5071418" | "5122137" | "5197963" | "5234004" | "5249585" | "5273524" | "5366490" | "5370675" | "5385544" | "5403311" | "5409453" | "5529574" | "5531676").PN. OR ("5800378").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 17:40
S72	20	S39 near4 edge	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:46
S73	372	atraumatic near4 edge	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:47
S74	225	S73 and (trocar cannula stylet introducer obturator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:48
S75	108	S74 and (energiz$4 RF radiofrequency radio adj frequency radio-frequency HF high-frequency high adj frequency ablat$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:49

S76	2404	non-coring noncoring non adj coring noncore non-core non adj core	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 11:42
S77	56	S76 with edge	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 11:42
S78	673	S76 same needle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 11:46
S79	95	S76 same edge	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 11:47
S80	57512	edge same needle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 11:47
S81	34	S78 and S79 and S80	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 11:47
S82	6	("3071135").URPN.	USPAT	OR	ON	2010/01/22 11:49
S83	724	604/272.ccls. 604/274.ccls.	USPAT	OR	ON	2010/01/22 11:55
S84	65	("3175554").URPN.	USPAT	OR	ON	2010/01/22 11:57
S85	3699	biopsy with needle	USPAT	OR	ON	2010/01/22 12:09
S86	6	S76 and S85	USPAT	OR	ON	2010/01/22 12:10
S87	2	S76 and 606/41-52.ccls.	USPAT	OR	ON	2010/01/22 12:15
S88	1	("5910150").PN.	USPAT; USOCR	OR	OFF	2010/01/22 12:35

S89	0	S76 and S84	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 12:38
S90	35	(US-20080228104-$ or US-20060253076-$ or US-20070032821-$ or US-20020198554-$ or US-20040116953-$ or US-20030125677-$ or US-20030125675-$ or US-20040220533-$ or US-20050159730-$).did. or (US-4960419-$ or US-6361520-$ or US-6352519-$ or US-6379371-$ or US-5025797-$ or US-3630192-$ or US-6478793-$ or US-3906932-$ or US-4686962-$ or US-6425887-$ or US-4840184-$ or US-5314462-$ or US-5624459-$ or US-6077179-$ or US-6159200-$ or US-6258000-$ or US-6478806-$ or US-5873879-$ or US-6730059-$ or US-6517523-$ or US-5752942-$ or US-3788320-$).did. or (US-3175554-$ or US-3071135-$).did. or (US-3906932-$ or EP-1698318-$).did.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2010/01/22 12:38
S91	9	S90 and S76	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 12:38
S92	29741	remov$4 near4 (cannula sheath introducer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:02
S93	768	S92 and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:02

S94	507	S92 and 606/41.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:03
S95	401	S94 and (punctur$3 pierc $4 penetrat$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:03
S96	338	S95 and (stylet trocar needle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:04
S97	22887	remov$4 near2 (cannula sheath introducer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:07
S98	11160	S97 and (punctur$3 pierc $4 penetrat$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:08
S99	302	S98 and 606/41.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:08
S100	256	S96 and S99	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:08
S101	148	remov$4 near2 (cannula sheath introducer) with expos$3 near3 (stylet needle punctur$4 pierc$4 penetrat$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:22
S102	0	S101 and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:23

S103	193	remov$4 near3 (cannula sheath introducer) with expos$3 near3 (stylet needle punctur$4 pierc$4 penetrat$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:23
S104	270	remov$4 near3 (cannula sheath introducer) with (expos$3 remain$3) near3 (stylet needle punctur$4 pierc$4 penetrat$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:23
S105	2	S104 and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:24
S106	26645	(needle stylet trocar) with (electrode conductive)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:43
S107	217652	(remov$4 retract$4 withdraw$3) near4 (sheath sleeve cannula shaft introducer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:44
S108	2239	S106 and S107	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:44
S109	72360	(rigid hard firm) near4 (sheath sleeve cannula shaft introducer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:45
S110	585	S108 and S109	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:45
S111	312	S110 and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:45

S112	56	uber-arthur$.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:46
S113	231	griffiths-david$.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:46
S114	107	hirschman-alan$.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:46
S115	324	S112 S113 S114	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:46
S116	63	S115 and tissue	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:46
S117	36	S116 and (needle pierc$4 punctur$4 penetrat$4 stylet sharp)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:47
S118	630	medrad.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:52
S119	15942	non-coring noncoring non adj coring noncore non-core non adj core coring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:52
S120	4	S118 and S119	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:52

S121	411	electrical with energy with mechanical and 606/41-52. ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:12
S123	57	S121 and penetrat$3 with tissue	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:12
S124	2	electrical with energy with mechanical with penetrat $4 with tissue and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:15
S126	4	electrical with energy with mechanical same penetrat $4 with tissue and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:16
S127	16	electrical with energy with mechanical same penetrat $4 with tissue and "606". clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:16
S128	167	electrical with energy with mechanical and penetrat$4 with tissue and "606".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:19
S129	124	electrical with energy with mechanical and (blade knife).ab. and "606".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:25
S130	21	catheter with penetrat$4 with tissue with mechanical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:29
S131	1	"10599366"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:35

S132	804	catheter with penetrat$4 with tissue and (compressed adj air hydraulic spring)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:36
S133	8	(knife blade).ab. and S132	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:37
S134	1	("5669883").PN.	USPAT; USOCR	OR	OFF	2010/07/26 15:39
S135	1	("6669685").PN.	USPAT; USOCR	OR	OFF	2010/07/26 15:41
S136	1	("6478793").PN.	USPAT; USOCR	OR	OFF	2010/07/26 15:41
S137	123256	(spring compressed adj air hydraulic) with (blade knife)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:53
S138	1769	catheter with penetrat$4 with tissue	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:53
S139	1	S137 and S138	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:54
S140	2128	catheter with (penetrat$4 pierc$3) with tissue	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:57
S141	4	S137 and S140	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:57

S142	862	cannula with catheter and (biopsy biopsies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 16:20
S143	412	S142 and (spring spring-loaded)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 16:20
S144	363	S143 and needle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 16:22
S145	0	S144 and repetetiv$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 16:35
S147	36	S144 and repetitiv$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 16:35
S148	34	S144 and oscillat$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 16:37
S149	862	cannula with catheter and (biopsy biopsies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 10:48
S150	862	S149	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 10:48
S151	256	S150 and actuat$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 10:48

S152	181	S151 and ("600".clas. "607".clas. "606".clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 10:48
S153	970	catheter same (biopsy biopsies) and actuat$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 10:49
S154	699	S153 and ("600".clas. "607".clas. "606".clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 10:49
S155	471	S154 and needle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 10:50
S156	2407	(biopsy with needle).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:02
S157	345	S156 and catheter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:02
S158	4	S157 and mechanical with energy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:02
S159	230	(biopsy with needle same catheter).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:08
S160	2	S159 and (stor$3 near4 energy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:10

S161	1260	(biopsy with needle same catheter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:10
S162	26	S161 and (stor$3 near4 energy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:10
S163	1281	(biopsy with (stylet needle) same catheter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:11
S164	26	S163 and (stor$3 near4 energy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:11
S165	23622	catheter with (needle stylet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:17
S166	11908	biopsy with (stylet needle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:18
S167	1556	S165 and S166	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:18
S168	521	S167 and spring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:18
S169	11908	biopsies with (stylet needle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:18

S170	1556	S165 and S169	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:18
S171	521	S170 and spring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:19
S172	521	S168 S171	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:19
S173	575	S167 and (spring pneumatic$4 stored adj energy hydraulic$5 compress$3 adj air)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:23
S174	23622	catheter with (needle stylet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 12:49
S175	11908	biopsy with (stylet needle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 12:49
S176	1556	S174 and S175	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 12:49
S177	575	S176 and (spring pneumatic$4 stored adj energy hydraulic$5 compress$3 adj air)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 12:49
S178	234	S177 and actuat$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 12:49

S179	55	("4166469" | "4281660" | "4309994" | "4401433" | "4445509" | "4525157" | "4602645" | "4624265" | "4652256" | "4664120" | "4681117" | "4790825" | "4804359" | "4821735" | "4926858" | "4979939" | "4991578" | "5078723" | "5127917").PN. OR ("5330496").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 13:14
S180	300	catheter with (deflect$4 steer$4) with (penetrat$4 pierc$3 biopsy biopsies)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 13:20
S181	184	S180 and spring	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 13:20
S182	108	catheter near3 remain$3 and catheter with (biopsy biopsies) and needle	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 14:32
S183	49	S182 and spring	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 14:32
S184	121	((flexible deflectable) with (biopsies biopsy)).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 14:42
S185	108	S184 and remov$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 14:42
S186	70	S185 and (spring pneumatic$5)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 14:52
S187	73	S184 and (remov$4 withdraw$3) and (spring pneumatic$5)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 14:53
S188	573916	(remov$4 withdraw$3) with (remain$3 stationary)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:15
S189	16	S184 and S188 and (spring pneumatic$5)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:16
S190	582450	(remov$4 withdraw$3) with (remain$3 stationary stays)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:21
S191	2158	((flexible deflectable) with (biopsies biopsy needle stylet penetrat$4 pierc$3)).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:22
S192	296	S191 and S190	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:22
S193	124	S192 and (remov$4 withdraw$3) and (spring pneumatic$5)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:22
S194	18	pneumatic$5 same (biopsies biopsy needle stylet penetrat$4 pierc$3) same (flexible deflectable).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:51

S195	4075	((biopsies biopsy needle stylet penetrat$4 pierc$3) same (flexible deflectable)).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:53
S196	153	S195 and pneumatic$5	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:54
S197	39	S196 and (sheath introducer cannula catheter)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:54
S198	4216	(tip needle stylet penetrat$4 pierc$3) with (pneumatic$5 mechanical$5 spring) near3 actuat$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 16:24
S199	49	S195 and S198	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 16:25
S200	151277	(tip needle stylet penetrat$4 pierc$3) with remov$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 16:26
S204	31	S200 and S199	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 16:28
S205	322	(needle same stylet same cannula).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 11:03
S206	103	S205 and (spring hydraulic$4 pneumatic$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 11:03
S207	573916	(remov$4 withdraw$3) with (remain$3 stationary)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/28 11:12
S208	573916	S207	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 11:12
S209	33	S207 and S206	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 11:12
S210	23	(trocar same biopsy same cannula).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 11:23

S212	8	S210 and (spring hydraulic $4 pneumatic$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 11:23
S213	1	("6478793").PN.	USPAT; USOCR	OR	OFF	2010/07/28 11:53
S214	1	("6120520").PN.	USPAT; USOCR	OR	OFF	2010/07/28 12:03
S215	1	(08/863877).APP.	USPAT; USOCR	OR	OFF	2010/07/28 12:09
S216	1	("3,906,932").PN.	USPAT; USOCR	OR	OFF	2010/07/28 12:12

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